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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/537,501 03/29/2000		Olli Talvitie	460-009334-US(PAR)	6906
75	90 03/06/20			
Clarence A Green			EXAMINER	
Perman & Gree 425 Post Road	n LLP		LE, DANH C	
Fairfield, CT 06430				
			ART UNIT	PAPER NUMBER
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			DATE MAILED: 03/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No.						
Examiner DANH C LE Seas - The MALLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. - Extraction of time may be evaluate under the provisions of 37 CFR 1.36(a). In re-event, however, may a neyly be limited the interpretation of the provision of 37 CFR 1.36(a). In re-event, however, may a neyly be limited the interpretation of the provision of 37 CFR 1.36(a). In re-event, however, may a neyly be limited the provision of 37 CFR 1.36(a). In re-event, however, may a neyly be limited the station of the major and the provision of 37 CFR 1.36(a). In re-event, however, may a neyly be limited the provision of 37 CFR 1.36(a). In the priod of may specified above, the machinum statisticary priorited will apply and will equiple SX (X) MONTHS from the mailing date of this communication of the provision of the provision of the provision of the statisticary priorited will apply and will equiple SX (X) MONTHS from the mailing date of this communication, when it limits that, may reduce a ny counted plates them sell-patients. See 37 CFR 1.74(b). Status 1) ☑ Responsive to communication(s) filed on 18 December 2002. 2a) ☐ This action is FINAL. 2b) ☑ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 2.3.5-10 and 12-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5] ☐ Claim(s) 3.3-10 and 12-15 is/are rejected. 7) ☐ Claim(s) is/are abjected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The specification is objected to by the Examiner. If approved, corrected drawings are required in reply to this Offic		Application No.	Applicant(s)			
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10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)	···					
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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 2, 3, 5, 6, 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Sroka (US 5,778,308).

As to claim 2, Sroka teaches the system for matching an antenna (figure 3A,) for a wireless communication device, characterized in that it comprises:

detecting means (34, 36) to detect the matching of the antenna by measuring the radio power reflected from the antenna and means to generate a matching signal on the basis of the measurement on the reflected radio power,

control means (32) to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and antenna matching means (31) to adjust the matching of the antenna on the basis of said control signal (col.4, line 34-col.5, line 3).

As to claim 3, Sroka teaches the matching system according to claim 2, characterized in that said detecting means (34, 36) also comprise means to measure the radio power to be supplied to the antenna and means to generate the matching signal on the basis of said measurement on the reflected radio power and said measurement on the radio power to be supplied to the antenna of the wireless communication device (col.3, line 66-col.5, line 3).



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As to claim 5, Sroka teaches the wireless communication device (figure 1, 15) comprising at least an antenna (figure 1, 17), characterized in that the wireless communication device also comprises:

detecting means (figure 3A, 34, 36) to detect the matching of the antenna by measuring the radio power reflected from the antenna and means to generate a matching signal on the basis of the measurement on the reflected radio power.

control means (figure 3A, 32) to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and

antenna matching means (figure 3A, 31) to adjust the matching of the antenna on the basis of said control signal.

As to claim 6, the limitation of the claim is the same the limitation of claim 3; therefore, the claim is interpreted and rejected as set forth in the claim 3.

As to claim 12, the claim is a method of claim 2; therefore, the claim is interpreted and rejected as set forth in the claim 2.

As to claim 13, the claim is a method of claim 3; therefore, the claim is interpreted and rejected as set forth in the claim 3.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the



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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 7, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sroka in view of Terk (US 5,812,066).

As to claim 7, Sroka teaches the wireless communication device according to claim 4. Sroka fails to teach the characterized in that said detecting means comprise means to measure a distance and means to generate the matching signal on the basis of said distance measurement. Terk teaches the characterized in that said detecting means comprise means to measure a distance and means to generate the matching signal on the basis of said distance measurement (col.8, lines 21-41). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Terk into the system of Sroka in order to provide enhanced system performance of the portable radio apparatus having adaptive antenna matching.

As to claim 8, Terk also teaches wireless communication device according to claim 7, characterized in that said means to measure a distance comprise an infrared transmitter (col.13, lines 21-41) and an infrared receiver (col.12, line 43-col.13, line 2).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Terk into the system of Sroka in order to provide enhanced system performance of the portable radio apparatus having adaptive antenna matching.

3. Claims 9, 10, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sroka in view of Tamura (US 5,335,638).

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As to claim 9, Sroka teaches the wireless communication device according to claim 4. Sroka fails to teach the antenna is arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the antenna and means to generate the matching signal on the basis of the position of the antenna. Tamura teaches the antenna (20) is arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the antenna (20) and means to generate the matching signal on the basis of the position of the antenna (col.3, line 14-col.4, line 40). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Tamura into the system of Sroka in order to provide enhanced system performance of the portable radio apparatus having adaptive antenna matching.

As to claim 10, Tamura further teaches the wireless communication device comprising at least a keypad cover (10) arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the keypad cover (10) and means to generate the matching signal on the basis of the position of the keypad cover (40).

As to claim 14, the limitation of the claim is the same the limitation of claim 9; therefore, the claim is interpreted and rejected as set forth in the claim 9.

As to claim 15, the limitation of the claim is the same the limitation of claim 10; therefore, the claim is interpreted and rejected as set forth in the claim 10.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANH C LE whose telephone number is 703-306-0542. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM TROST can be reached on 703-308-5318. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Danh C.Le

February 26, 2003

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600